

**FACULTY AND FAMILY STUDENT HOUSING,
OPEN SPACE PLAN, AND LRDP AMENDMENT EIR**

**SECTION 13.0
MITIGATION MONITORING AND REPORTING PROGRAM**

Section 13.0

*Mitigation
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13.1 INTRODUCTION

The California Environmental Quality Act (CEQA) requires the adoption of feasible mitigation measures to reduce the severity and magnitude of potentially significant environmental impacts associated with development of the proposed project. The Final Environmental Impact Report (Final EIR) for the UCSB Faculty and Family Student Housing, Open Space Plan, and LRDP Amendment, SCH #2003071178, dated February 2004, recommends that The Regents of the University of California adopt a range of measures that will mitigate to the extent feasible the environmental effects that could result from the implementation of the proposed project.

The mitigation measures include measures that must be undertaken during the development of the proposed project, or at regular time intervals to monitor and report on ongoing administrative actions or service levels. Monitoring of the implementation of adopted mitigation measures is required by Public Resources Code Section 21081.6. This document identifies mitigation measures (MMs) for the proposed project and describes the process whereby the MMs would be monitored following certification of the Final EIR and adoption of this Mitigation Monitoring and Reporting Program (MMRP) by The Regents.

13.2 PROJECT DESCRIPTION

The subject of this Mitigation Monitoring Program is the UCSB Faculty and Family Student Housing, Open Space Plan, and LRDP Amendment, which has been proposed by the University of California, Santa Barbara (UCSB or the University). The *Joint Proposal for the Ellwood-Devereux Coast* (Joint Proposal) was prepared and released by the University of California Santa Barbara and the County of Santa Barbara in March 2002. The Joint Proposal, as supplemented and amended by a Memorandum of Understanding (MOU) between the University, County, and the newly formed City of Goleta, was accepted and approved in January 2003 by the three jurisdictions as a starting point for a collaborative regional planning process. As a result of this planning process, residential development within each of the three jurisdictions is now proposed away from sensitive coastal resources and the three agencies have jointly prepared the Ellwood-Devereux Coast Open Space and Habitat Management Plan (Open Space Plan) to preserve and protect resources on, and coastal access to, approximately 2.25 miles of undeveloped coastline between Isla Vista and Sandpiper Golf Course. The intent of this cooperative effort is resolution

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of nearly two decades of debate on how to balance development rights and open space preservation, while protecting the area's most sensitive coastal resources and maintaining and enhancing public access to the coast. As a result of this collaborative regional planning process, the University proposes to relocate and reduce currently planned levels of residential development on its North and West Campuses, while still providing needed housing for University faculty and student families.

The proposed project consists of an amendment of the University LRDP, to permit residential development on the North Campus, to designate open space areas on the North and West Campuses, and to identify management actions to preserve, enhance, and restore coastal resources within those open space areas. In conjunction with amendment of the LRDP, the University would construct two individual housing projects and implement the proposed Open Space Plan initial improvements within University jurisdiction. The proposed faculty and family student housing and Open Space Plan project proposes development of 236 units of faculty housing on the North Parcel of the University North Campus and 151 units of Family Student Housing on the Storke-Whittier Parcel (also on the North Campus). Implementation of the Open Space Plan for the North and West Campuses would improve coastal access through (1) improvement of existing trails, (2) improvement of three existing beach access points, (3) installation of one new coastal access stairway, (4) provision of up to 84 (74 net additional) public parking spaces at up to four locations, and (5) replacement of the existing portable restroom at Coal Oil Point with a permanent restroom at approximately the same location. In addition, the Open Space Plan identifies goals, objectives, and management actions for the protection of sensitive coastal resources, including enhancement and restoration of degraded habitat.

In addition to review by The Regents of the University of California (The Regents), the proposed LRDP amendment would be reviewed by the California Coastal Commission, along with the proposed residential and Open Space Plan initial improvements in the form of a Notice of Impending Development.

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**13.3 MITIGATION MONITORING AND REPORTING PROGRAM
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13.3.1 Roles and Responsibilities

The Chancellor is ultimately responsible for the enforcement of all adopted mitigation measures and programs and procedures. The Administrative Vice Chancellor has responsibility for implementing this Mitigation Monitoring and Reporting Program, and will report on an annual basis directly to the Chancellor regarding the status of their implementation. Compliance with most project specific mitigation measures would remain the responsibility of the Campus Planning Department. The Environmental Planning unit within Campus Planning has overall responsibility for reporting on the monitoring and implementation of the mitigation measures and programs and procedures included in this MMRP.

13.3.2 Mitigation Monitoring Procedures

In general, monitoring consists of documenting that mitigation measures and programs and procedures were implemented by the responsible unit(s) at the appropriate time in specific project development, or at regular intervals for administrative actions, public service and vehicle trip and parking levels.

Specific Projects. Monitoring for specific projects would determine whether (1) LRDP academic, physical and operational objectives, and other specific design issues were considered in the design development phase; (2) the required CEQA analysis considered project-specific environmental effects, incorporated relevant mitigation measures; (3) construction contracts include the specified provisions; and (4) project management mitigations were implemented during construction and landscaping of the project.

Administrative Actions. Administrative actions to mitigate potential impacts of campus growth are monitored via annual consultation with and/or submittal of reports from the responsible unit(s). Administrative MMs include housing, transportation demand management, seismic renovation, water and energy conservation, solid waste reduction, wastewater generation, hazardous materials management, and Disaster Response Plan and Business Plan updates. As program strategies or goals have already been established in most of these areas, monitoring would consist of describing the status of actions undertaken to implement these mitigations,

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Section 13.0 programs and procedures, progress made towards implementation, and future actions to be initiated.

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Public Service Levels. MMs that relate to the maintenance of service levels are associated with the provision of adequate police and fire protection services, which could be affected by the proposed project. Monitoring these service levels would provide for an ongoing assessment of the adequacy of police and fire protection levels and equipment needs.

13.3.3 Mitigation Timing

Generally, the following milestones are used to identify timing for implementation of each mitigation measure, program, or procedure. Implementation of off-campus traffic improvement measures would be dependent upon the timing of project specific proposals under the proposed project.

- Design: During project design.
- Grading: Prior to and during project grading.
- Construction: Prior to and during project construction.
- Ongoing: Periodically as part of campus operations.

13.3.4 Program Changes

The University reserves the right to make amendments and/or substitutions of MMs if, in the exercise of the discretion of the University, it is determined that the amended or substituted MM will mitigate the identified potential environmental impact to at least the same degree as the original MM, or would attain an adopted performance standard for mitigation, and where the amendment or substitution would not result in a new significant impact on the environment which cannot be mitigated.

13.3.5 The Monitoring and Reporting Program

The mitigation measures and programs and procedures that are recommended to The Regents for adoption upon certification of the Final EIR for the proposed project form the remainder of this document. The required mitigation measures and programs and procedures are listed by impact area, with an identification of the campus unit or department responsible for

Exhibit 3c: Mitigation Monitoring and Reporting Program

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implementation and determination of the type or timing of implementation for each mitigation measure and/or program and procedure.

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A mitigation and monitoring report will be prepared annually by Campus Planning and Design to describe the implementation status of EIR mitigation measures, which will be expanded as needed to describe implementation of the proposed project. Annual mitigation and monitoring reports are submitted to the UC Office of the President, Planning, Design and Construction.

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Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

Number	Mitigation Measures	How Implemented	Implementer	Phase Implemented	Applicable Project Component			Phase Monitored	Who Monitors
					OSP	FH	SH		
4.2 Geology and Geologic Hazards									
4.2-1(a)	Per LRDP policy 30253.7, new development shall be constructed at a sufficient distance to maintain the proposed structure for a minimum of 100 years without the construction of shoreline protective devices.	Incorporated into Grading and Building Plans	Design & Construction Services Project Manager	Design Phase	X			Design Phase	Design & Construction Services Director
4.2-1(b)	During project-specific design, a site-specific geotechnical study shall be conducted under the direct supervision of a California Registered Engineering Geologist or licensed geotechnical engineer to assess seismic, geological, soil, and groundwater conditions at each construction site and develop recommendations to prevent or abate any identified hazards. The University shall incorporate or adhere to the recommendations of each site-specific report that are designed to reduce potential exposure to seismic hazards. These recommendations would include, but not be limited to, specific foundation design features, building and/or structural design features, and grading and excavating recommendations.	Incorporated into Grading and Building Plans	Design & Construction Services Project Manager	Design Phase		X	X	Design Phase, Grading Phase, Construction Phase	Design & Construction Services Director

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OSP = Ellwood-Devereux Coast Open Space and Habitat Management Plan

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4.2-1(c)	Per LRDP policy 30253.8, the campus shall determine the required setbacks for new buildings through the use of a report by a registered engineering geologist.	Incorporated into Grading and Building Plans	Design & Construction Services Project Manager	Design Phase		X	X	Design Phase	Design & Construction Services Director
4.2-2(a)	(i) Per LRDP policy 30251.11, contours of finished surfaces on the North and West Campuses are to be blended to achieve a consistent grade and natural appearance. Borders of cut slopes and fills are to be rounded off to minimum radius of five feet so as to blend with the natural terrain. (ii) This shall be applicable to development and structures on the North and West Campuses.	Incorporated into Grading and Building Plans	Design & Construction Services Project Manager	Design Phase	X	X	X	Grading Phase, Construction Phase	Design & Construction Services Director
4.2-2(b)	Per LRDP policy 30253.12, surface and sub-surface drainage pipes shall be designed to minimize erosion and instability of the bluff face and only where no other less damaging drainage system is feasible. Drainage devices extending over the bluff face shall not be permitted if the site can feasibly be drained landward of the bluff face.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase	X	X	X	Design Phase, Construction Phase	Design & Construction Services Director

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4.2-2(c)	Per LRDP policy 30253.13, vegetation within 50 feet of the bluff top shall be maintained or replanted with drought resistant species should grading be required to establish proper drainage landward of the bluff.	Incorporated into Contract Documents*	Design & Construction Services Project Manager	Grading Phase	X			Grading Phase, Construction Phase	Design & Construction Services Director
4.2-2(d)	Per LRDP policy 30231.1, to protect identified campus wetlands, environmentally sensitive habitat areas, and coastal waters from sediment transfer or contamination from urban runoff during construction, the following grading and erosion control practices shall be followed: (a) North and West Campuses construction periods shall be scheduled during the dry months of the year (May through October) whenever possible; (b) If grading occurs during the rainy season (November through April), sediment traps, barriers, covers, or other methods shall be used to reduce erosion and sedimentation. (c) A site-specific erosion control and landscape plan shall be prepared for all new construction. (d) Land on the North and West Campuses is to be developed in	Incorporated into Contract Documents* and Grading and Building Plans	Design & Construction Services Project Manager	Design Phase, Grading Phase	X	X	X	Grading Phase, Construction Phase	Design & Construction Services Director

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	<p>increments of workable size that can be completed during a single construction season: erosion and sediment control measures are to be coordinated with the sequence of grading.</p> <p>(e) Excavated materials shall not be deposited or stored where the material can be washed away by high water or storm runoff.</p> <p>(f) Grading operations on campus shall be conducted so to prevent damaging effects of sediment production and dust on the site and on adjoining properties.</p> <p>(g) When vegetation must be removed on campus, the method shall be one that will minimize the erosive effects from the removal.</p> <p>(h) Exposure of soil to erosion by removing vegetation shall be limited to the area required for construction operations. The construction and staging area should be fenced to define Project boundaries.</p> <p>(i) Removal of existing vegetation on campus is to be minimized whenever possible.</p> <p>(j) Temporary mulching or other suitable</p>								

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	<p>stabilization measures shall be used to protect exposed areas during construction or other land disturbance activities on campus.</p> <p>(k) Topsoil removed from the surface in preparation for grading and construction on-campus is to be stored on or near the site and protected from erosion while grading operations are underway, provided that such storage may not be located where it would cause suffocation of root systems of trees intended to be preserved. After completion of such grading, topsoil is to be restored to exposed cut and fill embankments of building pads so as to provide a suitable base for seeding and planting.</p> <p>(l) Slopes, both cut and fill on campus, shall not be steeper than 2:1 unless a geological and engineering analysis indicates that steeper slopes are safe and erosion control measures are specified.</p> <p>(m) Slopes on campus shall not be constructed so as to endanger or disturb adjoining property.</p> <p>(n) Sediment basins, sediment traps, or similar sediment control measures</p>								

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	shall be installed before clearing and grading operations begin. (o) Neither wet concrete, nor slurries thereof, shall be permitted to enter any campus wetlands.								
4.2-2(e)	Prior to the start of construction for any site restoration activities, a restoration plan shall be prepared that identifies construction and post-construction erosion control measures to minimize exposure of soils to wind and water erosion and deposition of sediment in adjacent areas and drainage courses.	Incorporated into Contract Documents* Restoration plan to be prepared by a qualified professional	Design & Construction Services Project Manager	Design Phase	X			Design Phase, Grading Phase, Construction Phase	Design & Construction Services Director
4.3 Hydrology and Water Quality									
4.3-3(a)	Installation of a culvert on Devereux Creek under the Venoco Access Road shall be restricted to the period from May to October, when rainfall is typically limited.	Incorporated into Contract Documents*	Design & Construction Services Project Manager	Construction Phase	X			Construction Phase	Design & Construction Services Director
4.3-3(b)	Installation of the culvert shall be accompanied by the removal of sediment in the existing upstream debris basin.	Incorporated into Contract Documents*	Design & Construction Services Project Manager	Construction Phase	X			Construction Phase	Design & Construction Services Director

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4.3-3(c)	Installation of the culvert shall be accompanied by measures to stabilize the portions of the channel immediately upstream and downstream of the culvert, and to re-vegetate areas affected by construction activities.	Incorporated into Contract Documents*	Design & Construction Services Project Manager	Construction Phase	X			Construction Phase	Design & Construction Services Director
4.3-9	For the bridge over Phelps Ditch, structural supports shall either be placed outside the 100-year flood hazard zone, or be designed such that flood flows would be directed toward the overbank area (adjacent to the ditch), which would contain potential flood flows associated with bridge supports.	Incorporated into Contract Documents*	Design & Construction Services Project Manager	Construction Phase		X		Construction Phase	Design & Construction Services Director
4.4 Biological Resources									
4.4-1(a)	Per LRDP policy 30230.1, development in Coal Oil Point Natural Reserve will be kept to a minimum. Only structures that would be used in conjunction with research in the Reserve, or that would enhance the area's usefulness as a natural study area, will be allowed, such as weather stations, observation blinds, small storage structures, fences, signs, and other gates.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase	X			Design Phase	Design & Construction Services Director
4.4-1(b)	Per LRDP policy 30240(a)4, to preserve roosting habitat for birds, eucalyptus, pine, and other trees and brush located on the bluff east of Coal Oil Point Natural	Incorporated into Contract Documents* and Building	Design & Construction Services Project Manager	Grading Phase, Construction Phase	X			Grading Phase, Construction Phase	Design & Construction Services Director

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	Reserve outside of the faculty housing development and outside of the Coal Oil Point development will not be removed except where necessary to accommodate new structures or infrastructure to preserve roosting habitat for sensitive bird species and monarch butterflies, special consideration and care shall be given prior to the removal of any significant non-native trees such as eucalyptus and some pines that are recognized as roosting areas for sensitive species. Non-native tree and brush species may be removed if their presence inhibits fulfillment of other LRDP objectives such as protection of view corridors or restoration of native habitat.	Plans							
4.4-1(c)	Per LRDP policy 30240(a)16, the campus shall use mosquito control methods with the least effects upon non-target organisms. Wetlands shall not be drained for this purpose, nor shall non-native larval predators be introduced.	Incorporated into Contract Documents*	Design & Construction Services Project Manager	Ongoing	X	X	X	Ongoing	Design & Construction Services Director
4.4-1(d)	Per LRDP policy 30240(b)6, in order to protect habitats of the Reserve: (a) The total square footage of current and replacement Coal Oil Point structures shall not exceed the total square footage of current Coal Oil Point structures.	Incorporated into LRDP	AVC of Campus Planning and Facilities Management	Design Phase	X			Design Phase, Grading Phase	AVC of Campus Planning and Facilities Management and Campus Planning and Design

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	(b) New structures that are constructed as part of the Coal Oil Point project shall be set back a minimum of 50 feet from the bluff edge. (c) Trees on Coal Oil Point will not be removed except where necessary to accommodate new structures and infrastructure.								Director
4.4-1(e)	Per LRDP policy 30251.7, existing native trees and significant stands of trees that pre-date University acquisition of the campus, to the extent feasible, shall be retained within the overall site area of new development.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase, Grading Phase	X	X	X	Design Phase, Grading Phase	Design & Construction Services Director
4.4-1(f)	If no vegetation or tree removal is proposed during the avian nesting period, no surveys are required. If it is not feasible to avoid the nesting period, a survey for special status and MBTA-protected nesting birds should be conducted by a qualified wildlife biologist no earlier than 14 days prior to the removal of trees, shrubs, grassland vegetation, buildings, grading, or other construction activity. Survey results shall be valid for 21 days following the survey. The removal of trees, shrubs, or weedy vegetation should avoid the February 1 through August 31 bird nesting period to the extent possible. The area	Incorporated into Contract Documents* A qualified wildlife biologist would be hired if necessary	Design & Construction Services Project Manager or Construction Contractor Project Manager	Grading Phase	X	X	X	Grading Phase	Design & Construction Services Director

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	<p>surveyed should include all construction sites, access roads, and staging areas, as well as areas within 500 feet outside the boundaries of the areas to be cleared or as otherwise determined by the biologist.</p> <p>Installation of bird netting during the non-nesting season on buildings that are used by swallows will prevent nesting and impacts to these species. If this is done, no building-specific surveys would be required.</p> <p>In the event that an active nest of a special status and MBTA-protected nesting birds is discovered in the areas to be cleared, or in other habitats within 150 feet (500 feet for raptors) of construction boundaries, clearing and construction should be postponed for at least two weeks or until a wildlife biologist has determined that the young have fledged (left the nest), the nest is vacated, and there is no evidence of second nesting attempts.</p>								
4.4-1(g)	As previously discussed, southern tarplant, a sensitive plant species, would be impacted by the development of both the North and Storke-Whittier parcels. Protocol plant surveys have not been conducted for the entire planning area and other sensitive plant species (Table 4.4-3) may occur within the project area and be	<p>Incorporated into Contract Documents*</p> <p>A qualified biologist would be hired to conduct</p>	Design & Construction Services Project Manager or Construction Contract Project Manager	Grading Phase	X	X	X	Grading Phase	Design & Construction Services Director, CDFG Regional Biologist

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	<p>impacted by the project. Therefore, prior to construction or restoration to ensure that no sensitive plants or wetland species would be significantly affected by the project, the University shall conduct plant surveys of the area in accordance with applicable protocols developed by the CDFG. Surveys for sensitive plants should be conducted by a botanist familiar with the species and its flowering status.</p> <p>If sensitive plant species are observed, a qualified botanist should develop a species-specific replacement plan to be incorporated into any restoration plans. If wetland species are involved, the botanist should work closely with the wetland specialist in creating the restoration plan [MM 4.4-2(i) and MM 4.4-2(j)] to ensure that conditions at newly created wetlands sites meet the needs of the sensitive plant species. This plan should include elements to limit project impacts such as the relocation of individual specimens, the collection of seeds and replanting, or the preservation and movement of topsoil that contains the seed bank.</p>	protocol plant surveys and develop a species-specific restoration plan if necessary							
4.4-1(h)	A monitoring program shall be developed by the University and approved by the CDFG to ensure the continued viability of sensitive habitat and/or individual or	<p>Incorporated into Contract Documents*</p> <p>A biological</p>	Design & Construction Services Project Manager	Design Phase, Construction and Operation Phase	X	X	X	Ongoing	Design & Construction Services Director,

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	populations of special-status (CNPS List 1B or greater) plant species that currently occur within the project area. The plan will focus on establishing baseline conditions of the current population(s), creating management and/or enhancement goals, developing a monitoring timeframe, establishing acceptable viability criteria, identifying appropriate remedial actions to be taken if the viability criteria is not met, and a funding mechanism for long-term monitoring, which could include establishment of a fund via development fees.	monitoring program will be prepared by a qualified professional		The monitoring plan would be prepared during design phase and implemented during construction and operation phase					CDFG Regional Biologist, and Campus Planning and Design Director
4.4-1(i)	Prior to construction or restoration activities that could impact federally protected vernal pool crustaceans, the University shall conduct surveys of the appropriate vernal pools in accordance with current USFWS survey protocol. If these species are found, consultation with the USFWS in accordance with the federal ESA shall occur (typically as part of the CWA permitting process). Restoration and preservation activities could be required by the USFWS should these species be observed before a permit will be issued by the USFWS or the ACOE.	Incorporated into Contract Documents* A qualified biologist would be hired to conduct surveys	Design and Construction Services Project Manager A qualified wildlife biologist would be hired to conduct surveys	Surveys would be conducted pre-construction phase Grading Phase	X	X	X	Construction Phase and Ongoing	Design & Construction Services Director, USFWS Regional Biologist, ACOE Case Manager
4.4-1(j)	If California least terns are observed within the COPR area, the following	Incorporated into Contract	Facilities Management Project Manager	Grading Phase	X			Grading Phase	AVC of Campus

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	measures shall apply to both the snowy plover and the California least tern, however, if no nesting or wintering California least terns are observed, the following will only apply to the snowy plover. To ensure that construction and construction-related noise associated with trail and access point closure and formalization and recreational activities associated with the formalization of trails and access points do not detrimentally impact the breeding and wintering activities of western snowy plovers and California least terns, routine monitoring of nesting snowy plovers and California least terns, if applicable, shall be conducted by a qualified wildlife biologist or trained volunteer. Nesting and roosting areas shall be completely surrounded by exclusion fencing placed under the guidance of a qualified biologist and routinely inspected and repaired as necessary year round. Exclusion fencing shall be adequate for preventing disturbance by people, pets, and horses. Should the plovers relocate their nesting sites, additional fencing shall be installed as required. Informational signs indicating the purpose of the fence shall be installed and maintained through the year. To offset potential impacts to nesting and roosting plovers associated	Documents*	/COPR qualified wildlife biologist hired to monitor						Planning and Facilities Management, Design & Construction Services Director, USFWS Regional Biologist, COPR Director

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FACULTY AND FAMILY STUDENT HOUSING, OPEN SPACE PLAN, AND LRDP AMENDMENT EIR

Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

Number	Mitigation Measures	How Implemented	Implementer	Phase Implemented	Applicable Project Component			Phase Monitored	Who Monitors
					OSP	FH	SH		
	with increased recreational use of Sands Beach, the University shall provide a financial contribution to the COPR to maintain and expand the Snowy Plover Docent Program. Additional measures may be imposed by the COPR Director or the USFWS and would augment or supersede MM 4.4-1(j).								
4.4-1(k)	If California least terns are observed within the COPR area, the following measures shall apply to both the snowy plover and the California least tern, however, if no nesting California least terns are observed, the following will only apply to the snowy plover. Construction and restoration activities within designated snowy plover critical habitat (Figure 4.4-2) shall only be conducted following approval by the USFWS in coordination with the COPR Director. Once approval has been obtained, all construction and restoration sites shall be surveyed daily by a qualified wildlife biologist during the nesting season to ensure that no plovers have started nesting within restoration or construction areas. If plovers are nesting within a project area, exclusion fencing shall be installed (as described in MM 4.4-1(p)) to prevent disturbance of the nest, and all work shall halt within a buffer zone	Incorporated into Contract Documents*	Facilities Management Project Manager	Grading Phase	X			Grading Phase, Construction Phase	AVC of Campus Planning and Facilities Management, USFWS Regional Biologist, COPR Director

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	established by a qualified wildlife biologist until the young have hatched and fledged. If construction occurs outside the nesting season, surveys should be conducted at the request of the USFWS. Additional measures may be imposed by the USFWS and would augment or supersede MM 4.4-1(k).								
4.4-1(l)	All project-related construction and restoration sites shall include installation of exclusion fencing of sufficient height and extent to prevent these species [sensitive reptiles and amphibians] from entering into the project areas. Fencing shall be installed under the direction of a qualified wildlife biologist, inspected daily to minimize the potential for damaged fence areas allowing these sensitive species entry into the construction zones. The inspections shall be performed by construction crewmembers, and any damage to the fence shall be repaired immediately.	Incorporated into Contract Documents*	Design & Construction Services Project Manager or Construction Contractor to hire a qualified wildlife biologist to perform these tasks	Grading Phase	X	X	X	Ongoing	Design & Construction Services Director
4.4-1(m)	To prevent disturbance of sensitive animals and habitats, pets shall not be allowed within the COPR or snowy plover habitat, and shall be required to be leashed at Sands Beach, providing they do not disturb the plovers.	LRDP, COPRMP	Campus Police	All Phases	X			Ongoing	COPR Campus Planning & Design, Campus Police

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4.4-1(n)	Construction and construction-related noise associated with: 1) trail and access point formalization within the South Parcel, West Campus Bluffs, and COPR; 2) recreational and restoration activities within the COPR expansion area, South Parcel and West Campus Bluffs; and 3) recreational activities associated with the formalization of trails and access points within the South Parcel, West Campus Bluffs, and COPR could impact special status wildlife species located within or adjacent to these parcels (Table 4.4-6 and Figure 4.4-2), although due to habitat improvement long-term effects are expected to be beneficial. Effected species would include species such as the white-tailed kite, and other species identified in Table 4.4-6 that are not specifically identified within previous mitigation measures. To minimize impacts, a monitoring program shall be developed by the University and approved by the CDFG and USFWS to ensure the continued viability of individual or populations of special status wildlife that currently occur within the project area. The plan will focus on maintaining baseline conditions of the current population(s) by creating management and/or enhancement goals,	Incorporated into Contract Documents*	Design & Construction Services Project Manager or Construction contractors to hire consultant to prepare monitoring plan	Grading Phase	X			Ongoing	Design & Construction Services Director, CDFG and USFWS Regional Biologists, COPR

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	developing a monitoring timeframe, establishing acceptable viability criteria, identifying appropriate remedial actions to be taken if the viability criteria are not met, and a development of a funding mechanism to ensure long-term monitoring.								
4.4-1(o)	The design, construction, and operation of residential development and open space improvement shall include Best Management Practices per the Storm Water Management Plan to reduce the discharge of sediment and pollutants in runoff.	Incorporated into Contract Documents*	Design & Construction Services Project Manager, Facilities Management Project Manager	Design Phase, Grading and Construction Phase SWPPP prepared during design phase, implemented during grading and construction phase	X	X	X	Ongoing	AVC of Campus Planning and Facilities Management, Design & Construction Services Director, EH&S
4.4-2(a)	Text associated with this mitigation measure has been deleted.								

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4.4-2(b)	Per LRDP policy 30251.17, native plant species from genetic stock from the Ellwood-Devereux watershed will be used in all open space areas outside the development areas on North and West Campuses, and drought tolerant species will be used within the development areas as much as possible. Landscaping use of exotic invasive plants listed in the most recent update of the Exotic Pest Plant of Greatest Ecological Concern in California (California Invasive Plant Council) shall be prohibited on North and West Campuses.	Incorporated into Construction Contract Documents* and Building Plans	Design & Construction Services Project Manager, Facilities Management Project Manager	Design Phase	X	X	X	Construction Phase	AVC of Campus Planning and Facilities Management, Design & Construction Services Director
4.4-2(c)	Per LRDP policy 30253.13, within 50 feet of the bluff top, vegetation shall be maintained or replanted with drought-resistant species, should grading be required to establish proper drainage landward of the bluff.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase	X			Construction Phase	Design & Construction Services Director
4.4-2(d)	When habitat that is regulated by the Clean Water Act (404) or defined as sensitive by the CDFG, or designated as ESHA would be impacted, either directly or indirectly, a Sensitive Habitat Restoration Plan shall be prepared to detail the specifics of the proposed habitat replacement mitigation. The plan shall be prepared prior to applicable vegetation or habitat modification by a qualified restoration specialist who has appropriate	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager or Construction contractor to hire a qualified biologist to prepare a Sensitive Habitat Restoration Plan including a monitoring plan	All Phases	X	X	X	Ongoing Plan reviewed prior to construction, implemented after construction, monitoring would take	Design & Construction Services Director, CDFG Regional Biologist, ACOE Case Manager

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	<p>knowledge for each habitat type, shall be approved by CDFG and/or ACOE (depending upon jurisdiction), and shall include all measures for the revegetation and maintenance of on and/or off-site habitat. The plan shall include the following, as necessary:</p> <p>(a) The details and procedures required to prepare the restoration site for planting (i.e., grading, soil preparations, soil stocking, etc.), including the need for a supplemental irrigation system, if any.</p> <p>(b) The methods and procedures for the installation of the plant materials. Plant protection measures identified by this document, the project biologist, and/or agency personnel shall be incorporated into the planting design and layout.</p> <p>(c) Guidelines for the maintenance of the mitigation site during the establishment phase of the plantings. The maintenance program shall contain guidelines for the control of non-native plant species, maintenance of the irrigation system, and replacement of plant species.</p> <p>(d) The revegetation plan shall include a</p>							place post-restoration	

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	<p>monitoring plan that when implemented will evaluate developing habitat and/or vegetation such that its final replacement value and ratio shall be at a minimum of 1:1 for non wetlands and 3:1 for ACOE-defined wetlands, or as otherwise mandated. Specific goals for the restored habitat shall be defined by quantitative and qualitative characteristics of similar habitats and plants (e.g., density, cover, species composition, structural development). The monitoring effort shall include an evaluation of not only the plant material installed, but the use of it by wildlife. Monitoring reports of the mitigation site shall be reviewed by the permitting state and federal agency(s).</p> <p>(e) In the mitigation of vernal pools that would be filled or otherwise disturbed, the University shall preserve and re-use the topsoil from vernal pools to be filled. Topsoil from vernal pools contains both the seed bank for the plant species that occur in that individual pool and any potential vernal pool crustacean cysts for those species that occur there. Removal of topsoil from vernal pools</p>								

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	<p>shall either: 1) comply with the most recent ACOE and USFWS guidelines at the time of construction, or 2) consist of removal of the top 2 inches of soil, followed by the next 4 inches of soil, and placement of these layers in constructed vernal pools in reverse order (e.g., first the 4 inches followed by the 2 inches) to approximately reconstruct the natural soil horizon.</p> <p>(f) For areas designated as ESHA, mitigation ratios shall be no less than 1:1 for both replacement of impacted areas, and new areas shall be designated as ESHA.</p> <p>(g) Contingency plans and appropriate remedial measures shall also be outlined in the revegetation plan should the plantings fail to meet designated success criteria and planting goals.</p>								
4.4-2(e)	Exotic invasive species shall be prohibited in all open space areas or near ESHA areas and riparian corridors. Landscaping in open space areas and the COPR shall include native species from locally occurring genomes.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase	X	X	X	Ongoing	Design & Construction Services Director

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**Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan
Mitigation Monitoring and Reporting Program**

Number	Mitigation Measures	How Implemented	Implementer	Phase Implemented	Applicable Project Component			Phase Monitored	Who Monitors
					OSP	FH	SH		
4.5 Hazards and Hazardous Materials									
4.5-2	<p>If contaminated soil and/or groundwater is encountered during excavation and/or grading activities,</p> <p>(i) The construction contractor(s) shall stop work and immediately inform the EH&S.</p> <p>(ii) An on-site assessment shall be conducted to determine if the discovered materials pose a significant risk to the public or construction workers.</p> <p>(iii) If the materials are determined to pose such a risk, a remediation plan shall be prepared and submitted to the EH&S to comply with all federal and State regulations necessary to clean and/or remove the contaminated soil and/or groundwater.</p> <p>(iv) Soil remediation methods could include, but are not necessarily limited to, excavation and on-site treatment, excavation and off-site treatment or disposal, and/or treatment without excavation.</p> <p>(v) Remediation alternatives for cleanup of contaminated groundwater could include, but are not necessarily limited</p>	<p>Incorporated into Contract Documents*</p> <p>Qualified Hazardous Materials Specialist will be contracted, if necessary</p>	<p>Design & Construction Services Project Manager, EH&S Department, Construction Contractor Project Manager (assist onsite assessment) or hire qualified professional</p>	Grading Phase	X	X	X	Grading Phase	EH&S Director, Design & Construction Services Director

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	to, on-site treatment, extraction and off-site treatment, and/or disposal. (vi) The construction schedule shall be modified or delayed to ensure that construction will not inhibit remediation activities and will not expose the public or construction workers to significant risks associated with hazardous conditions.								
4.5-3	Prior to construction, field testing for radon shall be performed in areas where ground disturbance is proposed on the North Parcel and Storke-Whittier Site. If radon is identified, then radon control systems such as radon vent pipes or radon vent fans shall be incorporated into building construction in order to ensure radon concentrations in the home remains below EPA-recommended levels of 4 picocuries per liter.	Incorporated into Contract Documents* Qualified Radon Specialist will be hired to perform field testing	Design & Construction Services Project Manager, EH&S Department	Grading Phase, Prior to Construction Phase		X	X	Grading Phase, Prior to Construction Phase	Design & Construction Services Director, EH&S Director
4.5-4(a)	In the event that abandoned oil wells are uncovered and/or disturbed during construction, construction activities shall cease in the immediate vicinity immediately and EH&S shall be contacted. Remedial capping operations would be required to re-cap the affected wells to current Department of Conservation specifications. Depending on the nature of soil contamination, if any, other	Incorporated into Contract Documents* and Emergency Operations Plan (EOP) Qualified professional will be hired to re-	Design & Construction Services Project Manager, Construction Contractor Project Manager, EH&S Department	Grading Phase	X	X	X	Grading Phase	EH&S Director, Santa Barbara County Fire Chief

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	appropriate agencies shall be notified (e.g., Santa Barbara County Fire Department FPD). The University shall ensure proper implementation of the reabandonment operation in compliance with all applicable laws and regulations.	cap affected wells							
4.5-4(b)	Following well discovery, a soil sampling strategy shall be prepared and implemented to characterize potential contamination from the well's former oil activities. Sampling locations shall be identified based upon historical review of on-site uses, locations of ground disturbance from either residential development or trail or coastal access improvements, and consultation with the County of Santa Barbara FPD. Once soils have been characterized, remediation, where necessary, shall be completed in conformance with County standards. County FPD shall review and approve closure reports for remediation plans upon completion of remediation activities and prior to ground disturbance.	Incorporated into Contract Documents* Qualified professional will be hired to prepare soil sampling report and conduct sampling	Design & Construction Services Project Manager, Construction Contractor Project Manager, EH&S Department	Grading Phase	X	X	X	Grading Phase	EH&S Director, Santa Barbara County Fire Chief, Facilities Management Department

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4.5-6	Per LRDP policy 30253.17, should housing development occur south of the Ocean Meadows Golf Course, a minimum setback of 585 feet between the nearest Ellwood Marine Terminal storage tank and any residential structures shall be maintained.	Incorporated into Contract Documents* and Grading and Building Plans	Design & Construction Services Project Manager	Design Phase		X	X	Design Phase	Design & Construction Services Director
4.5-9(a)	Ongoing coordination between the UCPD, Santa Barbara County Fire Department, and the University shall ensure site access through roadway or travel lane closure coordination with emergency response personnel.	Incorporate into Contract Documents* and EOP	Design & Construction Services Project Manager	Design Phase	X	X	X	Ongoing	EH&S Director, UCSB Police Commander, Santa Barbara County Fire Chief
4.5-9(b)	(i) The University shall review and revise the EOP to address potential emergencies and evacuations associated with the proposed developments. (ii) The University shall continue to implement the Emergency Operations Plan (EOP) to ensure that multiple emergency access or evacuation routes are provided to ensure that in the event one roadway or travel land is temporarily blocked, another may be utilized.	Incorporate into Contract Documents* and EOP	Design and Construction Services Project Manager and Housing and Residential Services Staff, EH&S Department	Ongoing	X	X	X	Ongoing	EH&S Director, Housing and Residential Services Director

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4.5-10(a)	Landscaping around development areas adjacent to open space shall minimize dense vegetation immediately adjacent to structural development. Specifically, 12 to 18 inches of bare ground shall be kept between structures and grasses of other vegetation.	Incorporate into Contract Documents*	Design & Construction Services Project Manager or Construction Contractor Service Manager	Design Phase, Construction Phase		X	X	Construction Phase	Design & Construction Services Director
4.5-10(b)	Mowing of any grassland adjacent to residential development on the North and West Campuses shall meet minimum standards for fire protection safety established by the County of Santa Barbara.	Incorporate into Contract Documents*	Housing and Residential Services Maintenance Staff	Ongoing		X	X	Ongoing	EH&S Director, Santa Barbara County Fire Chief, Housing and Residential Services Director
4.5-10(c)	In order to maintain a firebreak between the undeveloped areas and structures, fuel management setbacks shall be 10 feet from each side of a road and 30 feet from structures.	Incorporate into Contract Documents* and Grading and Building Plans	Design & Construction Services Director	Design Phase	X	X	X	Design Phase	Design & Construction Services Director, Santa Barbara County Fire Chief
4.5-10(d)	Dead and dying tree limbs, especially those that overhang the roof of any structures, and all vegetation within 10 feet of any chimney shall be removed.	Incorporated into Contract Documents*	Housing and Residential Services Maintenance Staff	Ongoing		X	X	Ongoing	Housing and Residential Services Director
4.5-10(e)	Grass and low-to-ground vegetation (ivy, vines, weeds) in proximity to structures shall be kept no more than six inches high.	Incorporated into Contract Documents*	Housing and Residential Services Maintenance Staff	Ongoing		X	X	Ongoing	Housing and Residential Services Director

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4.5-10(f)	Design of residential structures adjacent to open areas with native vegetation shall incorporate appropriate fire suppression systems into building design, which may include fire sprinkler systems, tempered or multiple pane windows, and fire-retardant materials for roofs, exterior walls, and siding.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase		X	X	Design and Construction Phase	Housing and Residential Services Director, EH&S Director
4.9 Visual Resources									
4.9-3(a)	Per LRDP policy 302510.7, in order to preserve existing native trees and significant stands of trees that pre-date University acquisition of the campus, to the extent feasible, native trees shall be retained within the overall site area of new development.	Incorporated into Contract Documents* and Grading Plans	Design & Construction Services Project Manager or Construction Contractor Project Manager	Design Phase, Grading Phase	X			Design Phase, Grading Phase	Design & Construction Services Director
4.9-3(b)	Per LRDP policy 30251.8, existing topography, vegetation, and scenic features of the North and West Campuses are to be retained and incorporated into the proposed development whenever possible.	Incorporated into Contract Documents* and Grading and Building Plans	Design & Construction Services Project Manager or Construction Contractor Project Manager	Design Phase	X	X	X	Design Phase, Grading Phase	Design & Construction Services Director

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4.9-3(c)	Per LRDP policy 30251.9, trees or shrubs may be selectively removed or trimmed to provide views to and along the ocean and scenic coastal areas along the primary view corridors identified in Figure 25 (1990 LRDP) or for safety reasons. Any removal of trees or shrubs shall be timed to avoid the nesting season of local birds (January through June).	Incorporated into Contract Documents*	Design & Construction Services Project Manager or Facilities Management Project Manager	Ongoing	X			Ongoing	Design & Construction Services Director, AVC of Campus Planning and Facilities Management
4.9-3(d)	Per LRDP policy 30251.10, specimen trees or groves that contribute to the visual attractiveness of the North and West Campuses may not be removed, unless necessary for safety reasons or to provide the least cleared area sufficient to locate and construct approved roads and structures on the site. Selective clearing of vegetation may be permitted where panoramic views may be presently obscured by such vegetation.	Incorporated into Contract Documents* and Grading and Building Plans	Facilities Management Project Manager	Design Phase	X	X	X	Grading Phase	AVC of Campus Planning and Facilities Management

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4.9-3(e)	(i) Per LRDP policy 30251.11, contours of finished surfaces on North and West Campuses are to be blended to achieve a consistent grade and natural appearance. Borders of cut slopes and fills are to be rounded off to a minimum radius of 5 feet so as to blend with the natural terrain. (ii) This shall be applicable to development and structures on the North and West Campuses.	Incorporated into Contract Documents* and Grading Plans	Design & Construction Services Project Manager or Construction Contractor Project Manager	Design Phase, Grading Phase	X	X	X	Design Phase, Grading Phase	Design & Construction Services Director
4.9-3(f)	Text associated with this mitigation measure has been deleted.								
4.9-3(g)	Per LRDP policy 30251.16, natural building materials and colors that are compatible with the surrounding landscape will be used where practical.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase	X	X	X	Design Phase, Construction Phase	Design & Construction Services Director
4.9-3(h)	Native plantings will be used to visually integrate and buffer development from public access corridors.	Incorporated into Contract Documents*	Design & Construction Services Project Manager	Design Phase	X	X	X	Design Phase, Construction Phase	Design & Construction Services Director
4.9-4(a)	The use of reflective mirrored glass for windows shall be minimized in residential development. Wherever feasible, the use of nonreflective, textured materials to minimize glare impacts shall be maximized in residential development.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase		X	X	Design Phase, Construction Phase	Design & Construction Services Director

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4.9-4(b)	<p>(i) Per LRDP policy 30240(b)4, all new lighting on the Campus shall be kept at the minimum level which strikes a balance between safety and habitat protection, and shall be designed to avoid glare into adjacent properties.</p> <p>(ii) This shall be applicable to all outdoor lighting associated with proposed developments on the North Campus.</p> <p>(iii) Outdoor lighting shall be of the minimum wattage required for the particular use and shall be directed to the specific location intended for illumination (e.g., roads, walkways, or recreation fields) to prevent stray light spillover onto adjacent residential areas or sensitive habitat.</p> <p>(iv) All fixtures on elevated light standards, such as in parking lots or along roadways, shall be shielded to reduce glare.</p>	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase	X	X	X	Design Phase, Construction Phase	Design & Construction Services Director

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					OSP	FH	SH		
4.10 Recreation									
4.10-1(a)	(i) Per LRDP policy 30213.1, outdoor recreational facilities, including recreation fields, basketball and tennis courts, may be used by the public at no cost, when not occupied by University classes or programs. (ii) This shall be applicable to residents of the proposed developments on the North Campus as well as visitors of open space/recreational areas of the North and West Campuses.	LRDP	Recreation Center Director	Ongoing	X	X	X	Ongoing	Recreation Center Director
4.10-1(b)	Per LRDP policy 30240(a)2, existing and proposed fences, signs, and information maps around the perimeter of the Reserve shall be maintained to restrict unauthorized access by pedestrians, dogs, motor vehicles (except service and emergency vehicles), and off-road bicycles.	Incorporated into Contract Documents or Memorandum of Understanding with COPR	Facilities Management Project Manager/COPR	Ongoing	X			Ongoing	Director, AVC of Campus Planning and Facilities Management
4.10-1(c)	Per LRDP policy 30240(a)15, unleashed dogs and motor vehicles, except for service and emergency vehicles, shall be prohibited on campus beaches and in the North and West Campuses open space area.	LRDP	Campus Police	Ongoing	X			Ongoing	Campus Police

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4.11 Cultural Resources									
4.11-2(a)	A University-qualified archaeologist shall complete a Phase I archaeological survey of all areas of the Faculty Housing, Sierra Madre, and Open Space Plan project sites where ground disturbance would occur.	Incorporated into Contract Documents*	Design & Construction Services Project Manager or Construction Contractor Project Manager will hire qualified archaeologist	Grading Phase	X	X	X	Grading Phase	Design & Construction Services Director
4.11-2(b)	Per LRDP policy 30244.2, the Department of Anthropology and Native Americans shall be consulted when development may adversely impact archaeological resources.	Incorporated into Contract Documents*	Design & Construction Services Project Manager or Construction Contractor Project Manager	Design Phase	X	X	X	Grading Phase	Design & Construction Services Director
4.11-2(c)	Per LRDP policy 30244.3, when development is proposed for areas where archaeological resources are affected, the project shall be designed to minimize impacts on such resources.	Project Design	Design & Construction Services Project Manager	Design Phase	X	X	X	Design Phase	Design & Construction Services Director, Campus Planning & Design
4.11-2(d)	Per LRDP policy 30244.4, during any grading and other activities that may result in ground disturbance on archaeological sites, a non-University affiliated archaeologist recognized by the SHPO and a Native American representative shall be present.	Incorporated into Contract Documents* Qualified archaeologist will be hired	Hired qualified archaeologist and Construction Contractor Project Manager	Grading Phase	X	X	X	Grading Phase	Design & Construction Services Director

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4.11-2(e)	<p>(i) Per LRDP policies 30244.1 and 30244.5, should archaeological or paleontological resources be disclosed during any planning, pre-construction, or construction phase of the project, all activity which could damage or destroy these resources shall be temporarily suspended until the site has been examined by a non-University archaeologist recognized by the SHPO, all available measures shall be explored to avoid development which will have adverse impacts on archaeological resources, and mitigation measures shall be developed and implemented to address the impacts of the project on archaeological resources.</p> <p>(ii) A qualified, non-University archaeologist shall first determine whether an archaeological resource uncovered during construction is a unique archaeological resource under PRC Section 21083.2(g), and. If the archaeological resource is determined to be a unique archaeological resource, the archaeologist shall formulate a mitigation plan in consultation with the campus that satisfies the requirements of Section</p>	Incorporated into Contract Documents*	Design & Construction Services Project Manager, Construction Contractor Project Manager	Grading Phase	X	X	X	Grading Phase, Construction Phase	Design & Construction Services Director

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	21083.2. (iii) If the archaeologist determines that the archaeological resource is not a unique archaeological resource, the archaeologist may record the site and submit the recordation form to the California Historic Resources Information System Central Coast Information Center. The archaeologist shall prepare a report of the results of any study prepared as part of a mitigation plan, following accepted professional practice. Copies of the report shall be submitted to the University and to the California Historic Resources Information System Central Coast Information Center.								
4.11-2(f)	Per LRDP policy 30244.7, when development that may impact an archaeological resource is proposed, the University shall follow the step-by-step procedure for identifying, evaluating, and mitigating impacts on archaeological resources identified in the revised Appendix F of the 1990 LRDP FEIR. The procedure is included in the Faculty and Family Student Housing, Open Space Plan, and LRDP Amendment EIR.	Incorporated into Contract Documents*	Design and Construction Services Project Manager	Design Phase	X	X	X	Design Phase	Design & Construction Services Director

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4.11-2(g)	Each beach access point (stairway, boardwalk, or other access modality) and each trail access point shall have posted signage requesting that users respect the sensitive resources of the Open Space Plan area, including but not limited to biological, cultural, wetlands, and geological resources, as well as the presence of possible hazards resulting from natural hydrocarbon seeps. Such signage shall not disclose the location of any particular cultural resource in order to prevent vandalism, theft, or other desecration or despoliation of the resource. Such signage shall convey an educational tone in keeping with the mission of the University's role in the Open Space Plan.	Incorporated into Contract Documents*	Facilities Management Grounds Department will write sign text in accordance with Campus Planning and Design; Facilities Management will install signs	Design Phase	X			Post-construction Phase	AVC of Campus Planning and Facilities Management and Campus Planning & Design Director
4.11-2(h)	Per LRDP policy 30244.6, vehicle use, unauthorized collecting of artifacts, or other activities that would destroy or disturb archaeological resources shall continue to be prohibited.	LRDP	Campus Police	Ongoing	X			Ongoing	Campus Police

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4.11-4	In the event of the discovery of a burial, human bone, or suspected human bone, all excavation or grading in the vicinity of the find shall halt immediately, the area of the find shall be protected, and the University immediately shall notify the Santa Barbara County Coroner of the find and comply with the provisions of PRC Section 5097 with respect to Native American involvement, burial treatment, and re-burial, if necessary.	Incorporated into Contract Documents*	Design & Construction Services Project Manager, Construction Contractor Project Manager	Grading Phase	X	X	X	Grading Phase	Design & Construction Services Director, Native American Indian representative
4.12 Transportation and Traffic									
4.12-1(a)	Modify the two-lane roadway section of El Colegio Road between Stadium Road on the east and Camino Corto Lane on the west, with a series of roundabouts at Camino Del Sur, Los Carneros Road, Camino Pescadero, Embarcadero Del Mar, Embarcadero Del Norte, and Stadium Road. Each roundabout would be designed to accommodate a truck with a 50-foot wheelbase, and each roundabout center island would provide an area for landscaping. The roundabout at Los Carneros Road would have two lanes approaching from each of the three legs. The Camino Pescadero and Embarcadero Del Mar roundabouts would have a single lane approaching, circulating, and exiting the roundabout from every direction. The	Incorporated into Contract Documents with County, Coordinated with County of Santa Barbara	Design & Construction Services Project Director	Design Phase		X	X	Design Phase, Construction Phase	VC Administrative Services, Design & Construction Services Director, Campus Planning and Design Director

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	Embarcadero Del Norte roundabout would have one northbound lane approaching from Isla Vista, two westbound lanes approaching from UCSB, and two eastbound approach lanes. The roundabout at Stadium Road would have a single approaching, circulating, and exiting lane.								
4.12-1(b)	The City of Goleta and the County of Santa Barbara have reviewed the improvements required for this roadway [i.e., Storke Road] and determined that the west side of Storke Road will need to be widened from Whittier Drive to El Colegio (adjacent to the Ocean Meadows Golf Course and the UCSB West Campus Apartments) to provide two southbound lanes, bike lanes, sidewalks and a raised median with left-turn pockets. A wildlife-friendly crossing will be required to allow wildlife to reach the open space on eastern side of Storke Road.	Incorporated into Contract Documents* with City of Goleta, Coordinated with City of Goleta	Design & Construction Services Project Director	Design Phase		X	X	Design Phase, Construction Phase	VC Administrative Services, AVC of Campus Planning and Facilities Management, City of Goleta Public Works Director, County of Santa Barbara Public Works Director, Campus Planning & Design Director
4.12-1(c)	Three mitigation options have been developed for the project-specific impact at the Storke Road/Hollister Avenue intersection.	Incorporated into Contract Documents* with City of	Design & Construction Services Project Director	Design Phase		X	X	Design Phase, Construction Phase	Design & Construction Services Director,

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	<p>(i) One of the operational constraints at the Storke Road/Hollister Avenue intersection is the lack of a westbound merge lane for the heavy right-turn movement from southbound Storke Road onto westbound Hollister Avenue. Vehicles traveling southbound on Storke Road turning right onto Hollister Avenue are at times delayed at the yield sign waiting for gaps in the westbound traffic stream on Hollister Avenue. These vehicles form queues that back-up onto Storke Road and affect the southbound through movements at the traffic signal. Providing a merge lane in front of the service station on this corner of the intersection would allow the vehicles to turn onto Hollister Avenue without being delayed by the through traffic.</p> <p>(ii) The GTIP includes an improvement for the intersection that involves adding a third eastbound left-turn lane. The GTIP improvement would also require adding a third lane on Storke Road northbound from Hollister Avenue to the U.S. 101 southbound ramp intersection. There are currently two northbound lanes on Storke Road and the third land would be required</p>	Goleta, Coordinated with City of Goleta							Campus Planning & Design Director

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	<p>to accept the traffic from the three eastbound left-turn lanes on Hollister Avenue. Implementation of the third left-turn would also require widening of Hollister Avenue adjacent to the Camino Real Marketplace site, which would require additional right-of-way from adjacent properties. The intersection's operation would be improved to LOS C (V/C 0.77/LOS C) with this improvement.</p> <p>(iii) The 1997 GTIP also include a project to add a third westbound through lane at the Storke Road/Hollister Avenue intersection. Adding a third westbound through lane (instead of the third eastbound left-turn lane) would improve the intersection operation to LOS C (V/C 0.78/LOS C). The third westbound through lane option at the intersection would require acquisition of right-of-way from developed properties on the north side of Hollister Avenue west of Storke Road (from a gas station and a recently constructed office building), as well as right-of-way from a vacant parcel located east of the intersection.</p>								

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4.12-1(d)	UCSB shall participate in the “fair share” funding of improvements to Storke Road and the Storke Road/Hollister Avenue intersection, meaning the University will negotiate with the City of Goleta and the County of Santa Barbara as appropriate for a contribution to the upgrade pursuant to procedures similar to those described in Government Code 54999 et seq. for contributions to utilities. In addition, the University will pay its fair share only if the City of Goleta and the County of Santa Barbara have established a mechanism to collect funds from other developers or entities that are contributing to traffic impacts and implements the proposed road or intersection improvements.	Incorporated into negotiated Contract Documents*	Design & Construction Services Project Director, VC Administrative Services	Prior to Construction Phase		X	X	Prior to Construction Phase	VC Administrative Services, Design & Construction Services Director, City of Goleta Public Works Director, County of Santa Barbara Public Works Director, Campus Planning & Design Director
4.12-6	Maintain at least one unobstructed lane in both directions on all campus and public roadways. At any time when only a single lane is available, provide a temporary traffic signal, signal carriers (i.e., flagpersons), or other appropriate traffic controls to allow travel in both directions. An encroachment permit from the City of Goleta may be required.	Incorporated into Contract Documents*	Design & Construction Services Project Manager or Construction Contractor Project Manager	Construction Phase		X	X	Construction Phase	Design & Construction Services Director

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4.12-7	For any construction-related closure of pedestrian routes, signage shall be provided indicating alternative routes. Where necessary, provide curb cuts and street crossings to ensure that alternate routes are accessible.	Incorporated into Contract Documents*	Design & Construction Services Project Manager or Construction Contractor Project Manager	Construction Phase	X	X	X	Construction Phase	Design & Construction Services Director
4.12-9	To ensure adequate access for emergency vehicles when construction projects would result in roadway closures, the Office of Design, Construction, and Physical Facilities shall consult with the University Police Department and the SBFD to disclose roadway closures and identify alternative travel routes.	Office of Design & Construction and Physical Facilities consults with Campus Police and SBFD	Design & Construction Services Project Manager	Design Phase	X	X	X	Design and Construction Phase	Design and Construction Services Director, EH&S Director, UCSB Police Commander, Santa Barbara County Fire Chief
4.13 Noise									
4.13-2	Construction activities shall be limited to the hours between 7:00 A.M. and 5:00 P.M. and shall not occur on weekends or federal holidays. Non-vibration generating construction activities such as interior finishes are not subject to these time restrictions.	Incorporated into Contract Documents*	Design & Construction Services Project Manager, Construction Contractor Project Manager	Grading Phase, Construction Phase	X	X	X	Grading Phase, Construction Phase	Design & Construction Services Director

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4.13-6(a)	Stationary construction equipment that generates noise levels in excess of 65 dBA Leq shall be located as far away from existing residential areas as possible. If required to minimize potential noise conflicts, the equipment shall be shielded from noise sensitive receptors by using temporary walls, sound curtains, or other similar devices.	Incorporated into Contract Documents* and Grading and Building Plans	Design & Construction Services Project Manager, Construction Contractor Project Manager	Grading Phase, Construction Phase	X	X	X	Grading Phase, Construction Phase	Design & Construction Services Director
4.13-6(b)	An information sign shall be posted at the entrance to each construction site that identifies the permitted construction hours and provides a telephone number to call and receive information about the construction project or to report complaints regarding excessive noise levels.	Incorporated into Contract Documents*	Design & Construction Services Project Manager, Construction Contractor Project Manager	Grading Phase, Construction Phase	X	X	X	Grading Phase, Construction Phase	Design & Construction Services Director
4.14 Air Quality									
4.14-2(a)	The campus shall implement, to the extent feasible, dust control measures throughout the construction phases of new project development: Active grading sites shall be watered at least twice daily to prevent dust from leaving the site Vehicle movement areas shall be watered at least three times daily to prevent dust from leaving the site	Incorporated into Contract Documents* and Grading and Building Plans	Design & Construction Services Project Manager, Construction Contractor Project Manager	Grading Phase, Construction Phase	X	X	X	Grading Phase, Construction Phase	Design & Construction Services Director

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	<p>Soil stockpiled for more than two days shall be covered, kept moist, or treated with soil binders to prevent dust generation</p> <p>After clearing, grading, earthmoving, or excavation is completed, the areas of exposed soil shall be treated by watering, revegetating, or by spreading soil binders until the area is paved or otherwise developed</p> <p>Excavation and grading operations shall be suspended when wind speeds (as instantaneous gusts) exceed 25 mph over a 30-minute period</p> <p>Traffic speed limits of 15 mph or less shall be posted and enforced on all unpaved roads</p> <p>All trucks hauling dirt, sand, soil, or other loose materials shall be covered or maintain at least two feet of freeboard (i.e., minimum vertical distance between top of the load and the top of the trailer), in accordance with Section 23114 of the California Vehicle Code</p> <p>Gravel pads shall be located at all vehicle access points to minimize the tracking of dust onto public roads</p>								

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	<p>Adjacent roadways shall be swept at the end of the construction work day if visible soil is transported into the street by construction activities</p> <p>Construction contractors shall designate a monitor for the dust control program. The name, telephone number, and work schedule of such person(s) shall be provided to the campus and SBCAPCD prior to the issuance of grading permits.</p> <p>All required dust control measures shall be shown on project grading and building plans</p>								
4.12-2(b)	<p>The campus shall implement, to the extent feasible, measures to reduce the amount of emissions generated by off-road construction equipment throughout the construction phases of new project development:</p> <p>Heavy-duty diesel-powered construction equipment manufactured after 1996 (with federally mandated “clean” diesel engines) shall be used to wherever feasible</p> <p>The engine size of construction equipment shall be the minimum practical size</p>	Incorporated into Contract Documents* and Buildings Plans	Design & Construction Services Project Manager, Construction Contractor Project Manager	Grading Phase, Construction Phase	X	X	X	Grading Phase, Construction Phase	Design & Construction Services Director

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	<p>The number of construction equipment operating simultaneously shall be minimized through efficient management practices to ensure that the smallest practical number is operating at any one time</p> <p>Construction equipment shall be maintained in proper tune per the manufacturer's specifications</p> <p>Construction equipment operating at the site shall be adjusted with two to four degree engine timing retard or equipped with precombustion chamber engines</p> <p>Catalytic converters shall be installed on gasoline-powered equipment, if feasible</p> <p>Diesel catalytic converters, diesel oxidation catalysts, and diesel particulate filters as certified and/or verified by the U.S. EPA or ARB shall be installed, if available and cost-effective</p> <p>Diesel-powered equipment shall be replaced by electric equipment whenever feasible</p>								

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4.15 Public Services and Utilities									
4.15-1	Fire alarm connections to the University Police Command Center shall continue to be provided in all new buildings to provide immediate location information to the SBCFD to reduce response times in emergency situations.	Incorporated into Contract Documents* and Buildings Plans	Design & Construction Services Project Manager, Campus Fire Marshall	Design Phase		X	X	Ongoing	EH&S Director, UCSB Police Commander, Santa Barbara County Fire Chief, Campus Fire Marshall
4.15-2(a)	Police staffing levels and equipment needed shall continue to be assessed on an ongoing annual basis during the campus budgeting process to ensure that the appropriate service levels will be maintained to protect an increased campus population and an increased level of development.	Campus Police	Campus Police	Ongoing	X	X	X	Ongoing	EH&S Director, UCSB Police Commander
4.15-2(b)	Annual meetings will be attended by the Directors of Housing, the COPR and the UCPD, to evaluate the adequacy of police protection service for University-owned housing and the COPR, assess institutional priorities and budgetary requirements, and identify and implement appropriate actions to ensure the continue adequacy of police protection services for resident students and faculty and the COPR.	Memorandum of Understanding between Directors of Housing, COPR, Campus Police	VC Administrative Services	Ongoing	X	X	X	Ongoing	Housing Director, UCSB Police Commander, COPR Director, Campus Planning & Design Director

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4.15-2(c)	Lighting associated with the proposed developments on the North Campus shall meet minimum standards for safety.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase		X	X	Design Phase	Design & Construction Services Director
4.15-4	(i) Per LRDP policy 30254.1, development of water mains, reclaimed water distribution systems, water treatment facilities, sewage lines, and telephone transmission lines will be designed and constructed to meet campus needs. (ii) This shall be applicable to the proposed developments on the North Campus.	Incorporated into Contract Documents* and Building Plans	Design & Construction Services Project Manager	Design Phase, Construction Phase		X	X	Design Phase, Construction Phase	Design & Construction Services Director, Facilities Management Project Manager
4.15-6(a)	New facilities shall be equipped with low-flow showers and toilets and high efficiency washing machines.	Incorporated into Contract Documents and Building Plans during project design	Design & Construction Services Project Manager	Design Phase, Construction Phase		X	X	Design Phase, Construction Phase	Design & Construction Services Director, EH&S Director, Housing and Residential Services Director

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4.15-6(b)	Measures to reduce landscaping irrigation needs shall be used, such as automatic timing systems to apply irrigation water during times of the day when evaporation rates are low, installing drip irrigation systems, using mulch for landscaping, subscribing to the California Irrigation Management Information System Network for current information on weather and evaporation rates, and incorporating drought-resistant plants as appropriate.	Incorporated into Contract Documents and Building Plans during project design	Design & Construction Services Project Manager	Design Phase		X	X	Ongoing	Design & Construction Services Director, EH&S Director, Housing and Residential Services Maintenance Staff
4.15-6(c)	The campus shall promptly detect and repair leaks in water and irrigation pipes.	Housing Maintenance will routinely inspect housing units and respond to calls	Housing & Residential Services maintenance	Ongoing		X	X	Ongoing	Housing & Residential Services
4.15-6(d)	The campus shall minimize the use of water to clean sidewalks, walkways, driveways, and parking areas.	Housing policy documents	Housing & Residential Services maintenance	Ongoing		X	X	Ongoing	Housing & Residential Services

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Number	Mitigation Measures	How Implemented	Implementer	Phase Implemented	Applicable Project Component			Phase Monitored	Who Monitors
					OSP	FH	SH		
4.15-7(a)	The campus shall include faculty housing, Sierra Madre housing, and Open Space Plan areas under the University's jurisdiction in the existing solid waste reduction and recycling program. The program shall be designed to limit the total quantity of campus solid waste that is disposed of in landfills by including recycling areas for the proposed faculty and Sierra Madre housing developments and recycling barrels at trail heads and parking lots within the Open Space Plan areas.	Incorporated into Contract Documents* with refuse and recycling contractor	University Housing and Residential Services Department/Facilities Management	Ongoing	X	X	X	Ongoing	University Housing and Residential Services Director and Facilities Management Recycling Coordinator
4.15-7(b)	All trash containers within the proposed residential developments on the North and West Campus as well as the Open Space and parking lot areas will have closing lids or equivalent design to keep pest animals out.	Incorporated into Project Design	Design & Construction Services Project Manager and Facilities Management	Design and Ongoing	X	X	X	Ongoing	University Housing and Residential Services Director and Facilities Management, AVC of Campus Planning and Facilities Management

* Contract documents include University documents and/or ground lease documents.

OSP = Ellwood-Devereux Coast Open Space and Habitat Management Plan

FH = North Campus Faculty Housing

SH = Sierra Madre Family Student Housing

AVC = Assistant Vice Chancellor

FACULTY AND FAMILY STUDENT HOUSING, OPEN SPACE PLAN, AND LRDP AMENDMENT EIR

Table 13-1 University of California, Santa Barbara Faculty and Family Student Housing and Open Space Plan Mitigation Monitoring and Reporting Program

Number	Mitigation Measures	How Implemented	Implementer	Phase Implemented	Applicable Project Component			Phase Monitored	Who Monitors
					OSP	FH	SH		
4.15-11	The University will work in good faith to resolve any issues with GWSD, if necessary, to properly account for the University use of conveyance capacity of the Goleta West Sanitary District in order to serve North Campus faculty housing. To the extent that existing reserves of the GWSD are insufficient to implement the proposed replacement and/or upgrades to the trunk line serving the proposed project, the University will provide a fair share contribution towards any required improvements, meaning the University will negotiate with the Goleta West Sanitary District for a contribution to the upgrade pursuant to the procedures described in Government Code 54999 et seq. for contributions to utilities. In addition, the University will pay its fair share only if the Goleta West Sanitary District has established a mechanism to collect funds from other developers or entities that are contributing to trunk line capacity impacts and implements the proposed improvements.	Incorporated into Contract Documents*	Facilities Management Department	Design Phase, Ongoing		X	X	Design Phase, Ongoing	Facilities Management

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